AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Original) A compound selected from the group represented by Formula I:

$$R_5$$
 R_1
 R_2
 R_2
 R_3
 R_4
 R_5
 R_7
 R_7
 R_8

Formula I

wherein:

T and T' are independently a covalent bond or optionally substituted lower alkylene; R₁ is chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl,

optionally substituted aralkyl, optionally substituted heteroaryl, and optionally substituted heteroaralkyl;

 R_2 and $R_{2'}$ are independently chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted heteroaryl, and optionally substituted heteroaralkyl; or R_2 and $R_{2'}$ taken together form an optionally substituted 3- to 7-membered ring;

 R_3 is chosen from hydrogen, optionally substituted alkyl-, optionally substituted aryl-, optionally substituted aralkyl-, optionally substituted heteroaryl-, optionally substituted heteroaryl-, optionally substituted heteroaralkyl-, $-C(O)-R_6$, and $-S(O)_2-R_{6a}$;

R₄ is independently chosen from hydrogen, optionally substituted alkyl, optionally substituted alkoxy, hydroxyl, nitro, cyano, dialkylamino, alkylsulfonyl, alkylsulfonamido, alkylthio, carboxyalkyl, carboxamido, aminocarbonyl, optionally substituted aryl, optionally

substituted aralkyl, optionally substituted heteroaralkyl and optionally substituted heteroaryl; and

R₅ is hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl, or optionally substituted heteroaralkyl; or

R₄ taken together with R₅ form an optionally substituted 5 to 7-membered ring nitrogencontaining heterocycle, which optionally incorporates from one to two additional heteroatoms, selected from N, O, and S in the heterocycle ring;

 R_6 is chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl, optionally substituted heteroaralkyl, R_{11} O- and R_{12} -NH-;

 R_{6a} is chosen from optionally substituted alkyl, optionally substituted aryl, optionally substituted alkylaryl, optionally substituted heteroaryl, optionally substituted alkylheteroaryl, and R_{12} -NH-;

R₇ is chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted heteroaryl, and optionally substituted heteroaralkyl;

or R₇ taken together with R₃, and the nitrogen to which they are bound, form an optionally substituted 5- to 12-membered nitrogen-containing heterocycle, which optionally incorporates from one to two additional heteroatoms, selected from N, O, and S in the heterocycle ring;

or R₇ taken together with R₂ form an optionally substituted 5- to 12-membered nitrogencontaining heterocycle, which optionally incorporates from one to two additional heteroatoms, selected from N, O, and S in the heterocycle ring;

 R_{11} is chosen from optionally substituted alkyl, optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl, and optionally substituted heteroaralkyl; and

R₁₂ is chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted heteroaryl, and optionally substituted heteroaralkyl;

- a pharmaceutically acceptable salt of a compound of Formula I;
- a pharmaceutically acceptable solvate of a compound of Formula I; or
- a pharmaceutically acceptable solvate of a pharmaceutically acceptable salt of a

compound of Formula I.

2. (Original) A compound of claim 1 comprising one or more of the following: one of T and T' is absent and the other is optionally substituted alkylene;

R₁ is selected from optionally substituted lower alkyl, optionally substituted aryl, or optionally substituted aralkyl;

 R_2 is optionally substituted C_1 - C_4 alkyl;

R₂, is hydrogen or optionally substituted C₁-C₄ alkyl;

 R_3 is $-C(O)R_6$;

 R_6 is selected from optionally substituted C_1 - C_8 alkyl, optionally substituted aryl- C_1 - C_4 -alkyl-, optionally substituted heteroaryl- C_1 - C_4 -alkyl-, optionally substituted heteroaryl, optionally substituted aryl, R_{11} O- and R_{12} -NH-;

 R_{11} is chosen from optionally substituted C_1 - C_8 alkyl and optionally substituted aryl;

 R_{12} is chosen from hydrogen, optionally substituted C_1 - C_8 alkyl and optionally substituted aryl;

 R_7 is chosen from hydrogen, C_1 - C_4 alkyl; cyclohexyl; phenyl substituted with hydroxyl, C_1 - C_4 alkoxy or C_1 - C_4 alkyl; benzyl; and R_{16} -alkylene-;

 R_{16} is hydroxyl, carboxy, (C_1 - C_4 alkoxy)carbonyl-, di(C_1 - C_4 alkyl)amino-, (C_1 - C_4 alkoxy)carbonylamino-, C_1 - C_4 alkoxy-, or optionally substituted N-heterocyclyl- (particularly azetidinyl, morpholinyl, pyridinyl, indolyl, furanyl, pyrrolidinyl, piperidinyl or imidazolyl, each of which may be otionally substituted;

R₄ is chosen from hydrogen, hydroxyl, lower alkyl (particularly methyl), lower alkoxy (particularly methoxy) and cyano; and

R₅ is chosen from hydrogen, lower alkyl (particularly methyl), and aralkyl (particularly benzyl).

(Original) A compound of claim 2 comprising one or more of the following:
 T and T' are absent;

R₁ is chosen from ethyl, propyl, methoxyethyl, naphthyl, phenyl, bromophenyl, chlorophenyl, methoxyphenyl, ethoxyphenyl, tolyl, dimethylphenyl, chorofluorophenyl, methylchlorophenyl, ethylphenyl, phenethyl, benzyl, chlorobenzyl, methylbenzyl,

methoxybenzyl, cyanobenzyl, hydroxybenzyl, dichlorobenzyl, dimethoxybenzyl, naphthylmethyl, and (ethoxycarbonyl)ethyl;

R₂, is hydrogen;

 R_2 is optionally substituted C_1 - C_4 alkyl;

 R_6 is chosen from phenyl; phenyl substituted with one or more of the following substituents: halo; C_1 - C_4 alkyl; C_1 - C_4 alkyl substituted with hydroxy (e.g., hydroxymethyl); C_1 - C_4 alkoxy; C_1 - C_4 alkyl substituted with C_1 - C_4 alkoxy, halo, nitro, formyl, carboxy, cyano, methylenedioxy, ethylenedioxy, acyl (e.g., acetyl), -N-acyl (e.g., N-acetyl) or trifluoromethyl; benzyl; phenoxymethyl-; halophenoxymethyl-; phenylvinyl-; heteroaryl-; heteroaryl- substituted with C_1 - C_4 alkyl or C_1 - C_4 alkyl substituted with halo (e.g., CF_3); C_1 - C_4 alkyl substituted with C_1 - C_4 alkoxy-; and benzyloxymethyl-;

R₇ is chosen from hydrogen, methyl, ethyl, propyl, butyl, cyclohexyl, carboxyethyl, carboxymethyl, methoxyethyl, hydroxyethyl, hydroxypropyl, dimethylaminoethyl, dimethylaminopropyl, diethylaminoethyl, diethylaminopropyl, aminopropyl, aminopropyl, methylaminopropyl, 2,2-dimethyl-3-(dimethylamino)propyl, aminoethyl, aminobutyl, aminopentyl, aminohexyl, isopropylaminopropyl, diisopropylaminoethyl, 1-methyl-4-(diethylamino)butyl, (t-Boc)aminopropyl, hydroxyphenyl, benzyl, methoxyphenyl, methylmethoxyphenyl, dimethylphenyl, tolyl, ethylphenyl, (oxopyrrolidinyl)propyl, (methoxycarbonyl)ethyl, benzylpiperidinyl, pyridinylethyl, pyridinylmethyl, morpholinylethyl morpholinylpropyl, piperidinylmethyl, azetidinylethyl, azetidinylpropyl pyrrolidinylpropyl, piperidinylmethyl, piperidinylethyl, imidazolylpropyl, imidazolylethyl, (ethylpyrrolidinyl)methyl, (methylpiperidinyl)propyl, furanylmethyl and indolylethyl; and

R₄ is hydrogen, optionally substituted alkyl, optionally substituted aryl, alkoxy, cyano, substituted amino, carbamyl, aryloxy, heteroaryloxy, heteroaryl, optionally substituted N-heterocyclyl, or trifluoromethyl.

4. (Original) A compound of claim 3 comprising one or more of the following:

R₁ is chosen from ethyl, propyl, methoxyethyl, naphthyl, phenethyl, benzyl,
chlorobenzyl, methylbenzyl, methoxybenzyl, cyanobenzyl, hydroxybenzyl, dichlorobenzyl,
dimethoxybenzyl, naphthylmethyl, and (ethoxycarbonyl)ethyl;

R₂ is chosen from methyl, ethyl, propyl, butyl, methylthioethyl, methylthiomethyl, aminobutyl, (CBZ)aminobutyl, cyclohexylmethyl, benzyloxymethyl, methylsulfinylethyl, methylsulfinylmethyl, and hydroxymethyl;

R₆ is chosen from phenyl, halophenyl, dihalophenyl, cyanophenyl, halo(trifluoromethyl)phenyl, hydroxymethyl-phenyl, methoxymethylphenyl, methoxyphenyl, ethoxyphenyl, carboxyphenyl, formylphenyl, ethylphenyl, tolyl, methylenedioxyphenyl, ethylenedioxyphenyl, methoxychlorophenyl, methylhalophenyl, trifluoromethylphenyl, furanyl, C₁-C₄ alkyl substituted furanyl, trifluoromethylfuranyl, C₁-C₄ alkyl substituted trifluoromethylfuranyl, benzofuranyl, thiophenyl, C₁-C₄ alkyl substituted thiophenyl, benzothiophenyl, benzothiadiazolyl, pyridinyl, indolyl, methylpyridinyl, trifluoromethylpyridinyl, pyrrolyl, quinolinyl, picolinyl, pyrazolyl, C₁-C₄ alkyl substituted pyrazolyl, N-methyl pyrazolyl, C₁-C₄ alkyl substituted N-methyl pyrazolyl, C₁-C₄ alkyl substituted pyrazinyl, C₁-C₄ alkyl substituted isoxazolyl, benzoisoxazolyl, morpholinomethyl, methylthiomethyl, methoxymethyl, N-methyl imidazolyl, and imidazolyl;

R₇ is R₁₆-alkylene-; and

 R_{16} is amino, C_1 - C_4 alkylamino-, $di(C_1$ - C_4 alkyl)amino-, C_1 - C_4 alkoxy-, hydroxyl, or N-heterocyclyl.

5. (Original) A compound of claim 4 comprising one or more of the following: R₁ is benzyl, chlorobenzyl, methylbenzyl, methoxybenzyl, cyanobenzyl, or hydroxybenzyl;

R₂ is ethyl or propyl;

R₆ is optionally substituted phenyl (especially, tolyl, halophenyl, methylhalophenyl, hydroxymethyl-phenyl, halo(trifluoromethyl)phenyl-, methylenedioxyphenyl, formylphenyl or cyanophenyl); and

 R_{16} is amino.

6. (Original) A compound of claim 1 comprising one or more of the following: one of T and T' is absent and the other is optionally substituted alkylene;

R₁ is selected from optionally substituted lower alkyl, optionally substituted aryl, or optionally substituted aralkyl;

 R_2 is optionally substituted C_1 - C_4 alkyl;

 R_2 is hydrogen or optionally substituted C_1 - C_4 alkyl;

 R_3 is $-C(O)R_6$;

 R_6 is selected from optionally substituted C_1 - C_8 alkyl, optionally substituted aryl- C_1 - C_4 -alkyl-, optionally substituted heteroaryl- C_1 - C_4 -alkyl-, optionally substituted heteroaryl, optionally substituted aryl, R_{11} O- and R_{12} -NH-;

R₁₁ is chosen from optionally substituted C₁-C₈ alkyl and optionally substituted aryl;

 R_{12} is chosen from hydrogen, optionally substituted C_1 - C_8 alkyl and optionally substituted aryl;

 R_7 is chosen from hydrogen, C_1 - C_4 alkyl; cyclohexyl; phenyl substituted with hydroxyl, C_1 - C_4 alkoxy or C_1 - C_4 alkyl; benzyl; and R_{16} -alkylene-;

 R_{16} is hydroxyl, carboxy, (C_1 - C_4 alkoxy)carbonyl-, di(C_1 - C_4 alkyl)amino-, (C_1 - C_4 alkoxy)carbonylamino-, C_1 - C_4 alkoxy-, or optionally substituted N-heterocyclyl- (particularly azetidinyl, morpholinyl, pyridinyl, indolyl, furanyl, pyrrolidinyl, piperidinyl or imidazolyl, each of which may be otionally substituted; and

R₄ and R₅ taken together form an optionally substituted 5 to 7-membered nitrogencontaining heterocycle which optionally incorporates from one to two additional heteroatoms, selected from N, O, and S in the heterocycle ring.

7. (Original) A compound of claim 6 comprising one or more of the following: T and T' are absent;

R₁ is chosen from ethyl, propyl, methoxyethyl, naphthyl, phenyl, bromophenyl, chlorophenyl, methoxyphenyl, ethoxyphenyl, tolyl, dimethylphenyl, chorofluorophenyl, methylchlorophenyl, ethylphenyl, phenethyl, benzyl, chlorobenzyl, methylbenzyl, methoxybenzyl, cyanobenzyl, hydroxybenzyl, dichlorobenzyl, dimethoxybenzyl, naphthylmethyl, and (ethoxycarbonyl)ethyl;

R₂, is hydrogen;

 R_2 is optionally substituted C_1 - C_4 alkyl;

 R_6 is chosen from phenyl; phenyl substituted with one or more of the following substituents: halo; C_1 - C_4 alkyl; C_1 - C_4 alkyl substituted with hydroxy (e.g., hydroxymethyl); C_1 - C_4 alkoxy; C_1 - C_4 alkyl substituted with C_1 - C_4 alkoxy, halo, nitro, formyl, carboxy, cyano,

methylenedioxy, ethylenedioxy, acyl (e.g., acetyl), -N-acyl (e.g., N-acetyl) or trifluoromethyl; benzyl; phenoxymethyl-; halophenoxymethyl-; phenylvinyl-; heteroaryl-; heteroaryl- substituted with C_1 - C_4 alkyl or C_1 - C_4 alkyl substituted with halo (e.g., CF_3); C_1 - C_4 alkyl substituted with C_1 - C_4 alkoxy-; and benzyloxymethyl-;

R₇ is chosen from hydrogen, methyl, ethyl, propyl, butyl, cyclohexyl, carboxyethyl, carboxymethyl, methoxyethyl, hydroxyethyl, hydroxypropyl, dimethylaminoethyl, dimethylaminopropyl, diethylaminoethyl, diethylaminopropyl, aminopropyl, methylaminopropyl, 2,2-dimethyl-3-(dimethylamino)propyl, aminoethyl, aminobutyl, aminopentyl, aminohexyl, isopropylaminopropyl, diisopropylaminoethyl, 1-methyl-4-(diethylamino)butyl, (t-Boc)aminopropyl, hydroxyphenyl, benzyl, methoxyphenyl, methylmethoxyphenyl, dimethylphenyl, tolyl, ethylphenyl, (oxopyrrolidinyl)propyl, (methoxycarbonyl)ethyl, benzylpiperidinyl, pyridinylethyl, pyridinylmethyl, morpholinylethyl morpholinylpropyl, piperidinyl, azetidinylmethyl, azetidinylethyl, imidazolylpropyl, imidazolylethyl, (ethylpyrrolidinyl)methyl, (methylpiperidinyl)propyl, furanylmethyl and indolylethyl; and

R₄ and R₅ taken together form an optionally substituted pyridinyl, pyridazinyl, pyrimidinyl, pyrazinyl, piperazinyl, hexahydropyrimidinyl, piperazinyl, morpholinyl, pyrrolyl, pyrazolyl, imidazolyl, dihydroisoxazolyl, or dihydrooxazolyl ring.

8. (Original) A compound of claim 1 comprising one or more of the following: one of T and T' is absent and the other is optionally substituted alkylene;

R₁ is selected from optionally substituted lower alkyl, optionally substituted aryl, or optionally substituted aralkyl;

 R_2 is optionally substituted C_1 - C_4 alkyl;

R₂, is hydrogen or optionally substituted C₁-C₄ alkyl;

R₃ taken together with R₇ and the nitrogen to which they are bound, forms an optionally substituted imidazolyl; and

 R_4 is chosen from hydrogen, hydroxyl, lower alkyl, lower alkoxy and cyano; and R_5 is chosen from hydrogen, lower alkyl, and aralkyl; or R_4 and R_5 taken together form an optionally

substituted 5 to 7-membered nitrogen-containing heterocycle which optionally incorporates from one to two additional heteroatoms, selected from N, O, and S in the heterocycle ring.

9. (Original) A compound of claim 1 comprising one or more of the following: one of T and T' is absent and the other is optionally substituted alkylene;

R₁ is selected from optionally substituted lower alkyl, optionally substituted aryl, or optionally substituted aralkyl;

 R_2 is optionally substituted C_1 - C_4 alkyl;

R₂, is hydrogen or optionally substituted C₁-C₄ alkyl;

 R_3 taken together with R_7 and the nitrogen to which they are bound, forms an optionally substituted imidazolinyl; and

R₄ is chosen from hydrogen, hydroxyl, lower alkyl, lower alkoxy and cyano; and R₅ is chosen from hydrogen, lower alkyl, and aralkyl; or R₄ and R₅ taken together form an optionally substituted 5 to 7-membered nitrogen-containing heterocycle which optionally incorporates from one to two additional heteroatoms, selected from N, O, and S in the heterocycle ring.

10. (Original) A compound of claim 1 comprising one or more of the following: one of T and T' is absent and the other is optionally substituted alkylene;

R₁ is selected from optionally substituted lower alkyl, optionally substituted aryl, or optionally substituted aralkyl;

 R_2 is optionally substituted C_1 - C_4 alkyl;

 R_2 is hydrogen or optionally substituted C_1 - C_4 alkyl;

R₃ taken together with R₇ and the nitrogen to which they are bound, forms an optionally substituted diazepinone; and

R₄ is chosen from hydrogen, hydroxyl, lower alkyl, lower alkoxy and cyano; and R₅ is chosen from hydrogen, lower alkyl, and aralkyl; or R₄ and R₅ taken together form an optionally substituted 5 to 7-membered nitrogen-containing heterocycle which optionally incorporates from one to two additional heteroatoms, selected from N, O, and S in the heterocycle ring.

11. (Original) A compound of claim 1 wherein:

R₁ is benzyl, chlorobenzyl, methylbenzyl, methoxybenzyl, cyanobenzyl, or

hydroxybenzyl;

R₂, is hydrogen;

 R_2 is optionally substituted C_1 - C_4 alkyl;

 R_3 is $-C(O)R_6$;

R₆ is optionally substituted phenyl;

R₇ is R₁₆-alkylene-;

 R_{16} is amino, C_1 - C_4 alkylamino-, $di(C_1$ - C_4 alkyl)amino-, C_1 - C_4 alkoxy-, hydroxyl, or N-heterocyclyl;

R₄ is chosen from hydrogen, hydroxyl, lower alkyl (particularly methyl), lower alkoxy (particularly methoxy) and cyano; and

R₅ is chosen from hydrogen, lower alkyl (particularly methyl), and aralkyl (particularly benzyl).

12. (Original) A compound of claim 1 wherein:

 R_1 is benzyl, chlorobenzyl, methylbenzyl, methoxybenzyl, cyanobenzyl, or hydroxybenzyl;

R₂, is hydrogen;

 R_2 is optionally substituted C_1 - C_4 alkyl;

 R_3 is $-C(O)R_6$;

 R_6 is $R_{12}NH$ -;

 R_{12} is chosen from hydrogen, C_1 - C_4 alkyl; cyclohexyl; and optionally substituted phenyl; R_7 is R_{16} -alkylene-,

 R_{16} is amino, C_1 - C_4 alkylamino-, $di(C_1$ - C_4 alkyl)amino-, C_1 - C_4 alkoxy-, hydroxyl, or N-heterocyclyl;

R₄ is chosen from hydrogen, hydroxyl, lower alkyl (particularly methyl), lower alkoxy (particularly methoxy) and cyano; and

R₅ is chosen from hydrogen, lower alkyl (particularly methyl), and aralkyl (particularly benzyl).

13. (Original) A compound of claim 1 wherein:

R₁ is benzyl, chlorobenzyl, methylbenzyl, methoxybenzyl, cyanobenzyl, or

hydroxybenzyl;

R₂, is hydrogen;

 R_2 is optionally substituted C_1 - C_4 alkyl;

 R_3 is $-C(O)R_6$;

 R_6 is $R_{11}O_{-}$;

R₁₁ is chosen from optionally substituted C₁-C₈ alkyl and optionally substituted aryl;

R₇ is R₁₆-alkylene-;

 R_{16} is amino, C_1 - C_4 alkylamino-, di(C_1 - C_4 alkyl)amino-, C_1 - C_4 alkoxy-, hydroxyl, or N-heterocyclyl;

R₄ is chosen from hydrogen, hydroxyl, lower alkyl (particularly methyl), lower alkoxy (particularly methoxy) and cyano; and

R₅ is chosen from hydrogen, lower alkyl (particularly methyl), and aralkyl (particularly benzyl).

14. (Original) A compound of claim 1 that is

N-(3-Amino-propyl)-N-[1-(5-benzyl-2-methyl-6-oxo-1,6-dihydro-pyrimidin-4-yl)-2-methyl-propyl]-4-methyl-benzamide;

N-(3-Amino-propyl)-N-[1-(5-benzyl-1,2-dimethyl-6-oxo-1,6-dihydro-pyrimidin-4-yl)-2-methyl-propyl]-4-methyl-benzamide;

N-(3-Amino-propyl)-N-[1-(3-benzyl-4-oxo-4H-pyrido[1,2-a]pyrimidin-2-yl)-2-methyl-propyl]-4-methyl-benzamide; or

N-(3-Amino-propyl)-N-[1-(3-benzyl-8-chloro-4-oxo-4H-pyrido[1,2-a]pyrimidin-2-yl)-2-methyl-propyl]-4-methyl-benzamide.

- 15. (Currently Amended) A compound of any of the above claims claim 1 wherein the stereogenic center to which R_2 and R_2 , is attached is of the R configuration.
- 16. (Currently Amended) A composition comprising a pharmaceutical excipient and a compound, salt, or solvate thereof of any one of claims 1-14 claim 1.

- 17. (Original) A composition according to claim 16, wherein said composition further comprises a chemotherapeutic agent other than a compound of Formula I or a pharmaceutical salt or solvate thereof.
- 18. (Original) A composition according to claim 17 wherein said composition further comprises a taxane.
- 19. (Original) A composition according to claim 17, wherein said composition further comprises a vinca alkaloid.
- 20. (Original) A composition according to claim 17, wherein said composition further comprises a topoisomerase I inhibitor.
- 21. (Cancelled).
- 22. (Currently Amended) A method of inhibiting KSP which comprises contacting said kinesin with an effective amount of a compound according to any one of claims 1 to 13 claim 1, or a pharmaceutically acceptable salt or solvate thereof.
- 23. (Currently Amended) A method for the treatment of a cellular proliferative disease comprising administering to a subject in need thereof a compound according to any one of claims 1-13 claim 1, or a pharmaceutically acceptable salt or solvate thereof.
- 24. (Cancelled)
- 25. (Currently Amended) A method according to claim 23 or claim 24 wherein said disease is selected from the group consisting of cancer, hyperplasias, restenosis, cardiac hypertrophy, immune disorders, and inflammation.
- 26. (Cancelled).

27. (Cancelled).

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